



## **IMPORTANT READ ME FIRST**

Thank you for purchasing your Kushlan Mixer. We hope that you will enjoy using it for many years to come.

SHOULD YOU REQUIRE ANY SET-UP OR OPERATING ASSISTANCE WITH YOUR PRODUCT,

***DO NOT RETURN*** TO ORIGINAL PLACE OF PURCHASE.

- After referring to the operation manual, if you still require assistance, please consult our web site @ [www.kushlanproducts.com](http://www.kushlanproducts.com)
- From our web site you will be able to e-mail us directly.
- If you still require assistance, you may call our customer service department at:
- 1-800-469-4178.

## **THE ENFORCER**

**Chinese Design Patent No. ZL 02 3 75459.1**



## **Kushlan Poly Pro Mixers**

# **ASSEMBLY & OPERATING INSTRUCTIONS and PARTS MANUAL**

For

## **THE ENFORCER**

### **!WARNING!**

**DO NOT ATTEMPT TO START OR OPERATE THIS  
MACHINE UNTIL ALL THE INSTRUCTIONS HAVE  
BEEN READ AND UNDERSTOOD BY THE  
OPERATOR. FAILURE TO DO SO COULD RESULT  
IN SERIOUS BODILY INJURY AND/OR PROPERTY  
DAMAGE**



! SAFETY ALERT SYMBOL  
This safety alert symbol is used to attract your attention

! PERSONAL SAFETY IS INVOLVED  
When you see this symbol, PAY EXTRA ATTENTION, BECOME ALERT – BE SURE TO HEED ITS MESSAGE. Failure to do so may lead to serious personal injury or damage may occur.

! WARNINGS AND SAFETY INSTRUCTION  
If these warnings and safety instructions are not read and carefully followed, serious personal injury could occur.

#### WARNINGS

1. Do not use, start, or attempt to operate this machine until all of the instructions have been read and fully understood.
2. NEVER allow anyone to operate this machine unless the person is well acquainted with these rules of safe operation.
3. NEVER operate this machine without all guards in place and firmly attached to the machine.
4. Make certain that the mixing drum is clear of obstructions and stand clear of the machine while making power cord connections.
5. When cleaning, lubricating, or adjusting the mixer, disconnect the power plug.
6. Keep all people (except operator) a minimum of five (5) feet away from the machine during operation.
7. ALWAYS MAKE CERTAIN THAT THE MIXER IS CONNECTED TO A PROPERLY GROUNDED ELECTRIC CIRCUIT TO PROTECT THE OPERATOR FROM POSSIBLE ELECTRIC SHOCK.
8. DO NOT plug or unplug the motor while standing in or around damp or wet ground.
9. DO NOT start the motor if the drum is fully loaded.
10. DO NOT OVERLOAD THE MIXER.

11. NEVER attempt to move the mixer while the motor is on.

#### SAFETY INSTRUCTIONS

For the safety of yourself and others around you, it is extremely important that you observe the following notes.

1. Keep hands and clothing away from moving parts at all times.
2. DO NOT operate this machine under the influence of alcohol or while taking medication that impairs the senses or reactions.
3. Make certain that the work area around the machine is clear of debris and obstructions to prevent tripping and/or falling onto the machine.
4. Keep all unauthorized and untrained people away from the machine at all times.
5. NEVER let the mixer run unattended even for a brief moment. Turn off the motor when you leave the machine.
6. Only use or operate the mixer on level ground to prevent the mixer from tipping over.
7. DO NOT abuse the power cord; i.e. NEVER yank on the cord to disconnect it. Keep the cord away from heat, oil, and sharp edges.
8. DO NOT overreach while working with the mixer. Keep proper footing and balance at all times when loading or unloading the mixer.
9. NEVER allow children or inexperienced operators to operate or repair the mixer.
10. Use only factory authorized parts for replacement
11. Keep these operating instructions with the machine at all times.
12. ALWAYS wear safety glasses and safety shoes when operating and moving equipment.
13. SAFETY DECALS – Replace missing or damaged safety decals.

# KUSHLAN PRODUCTS, INC.

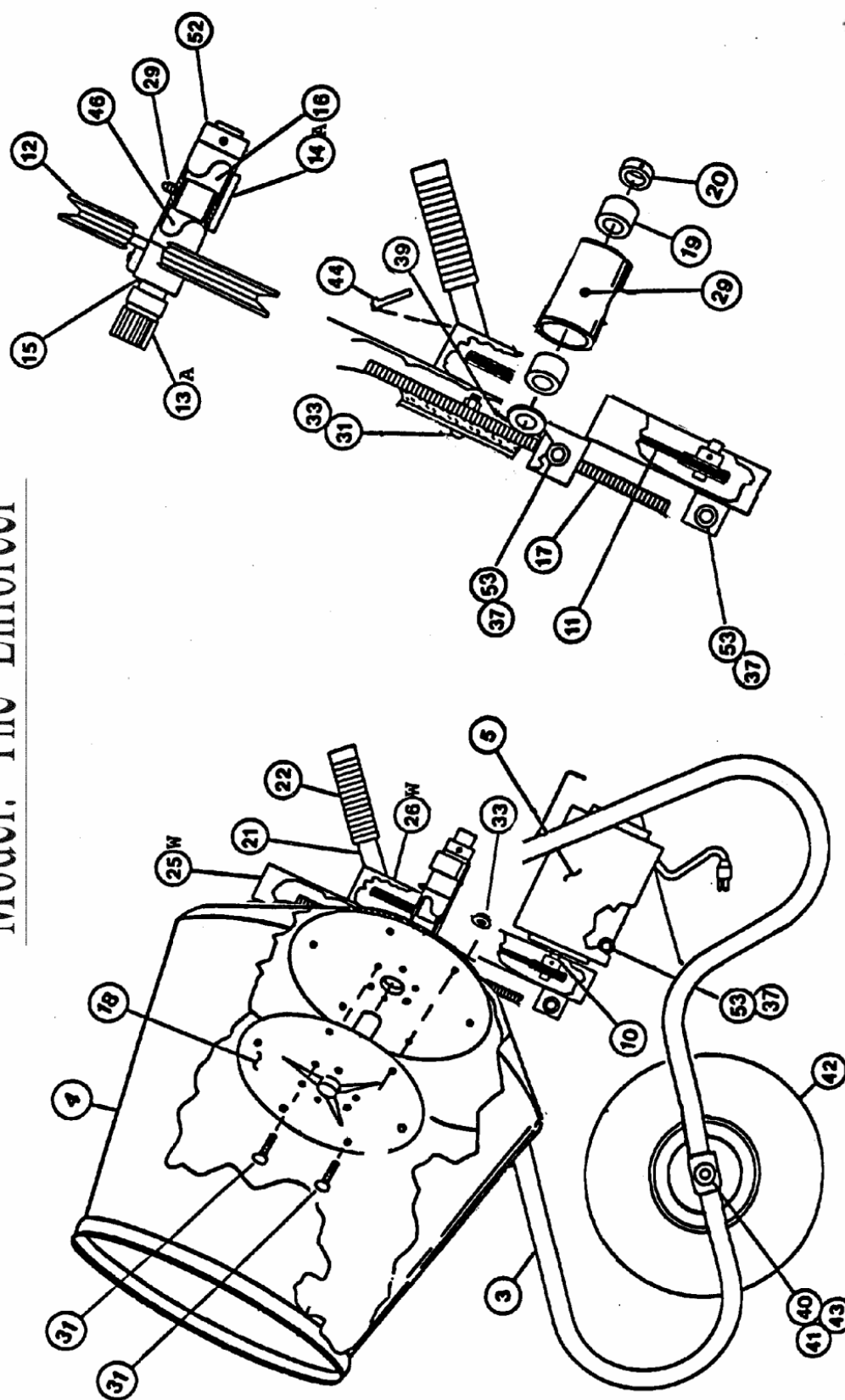
## MODEL "THE ENFORCER"

### PARTS LIST



ITEM	PART NO	DESCRIPTION	QTY
	<b>28873-601</b>	<b>Enforcer Wheelbarrow</b>	<b>X</b>
3	28873-001	Frame assembly	1
4	28760-004	Poly drum with molded paddles	1
5	28872-001	Electric motor with cord 1/2 hp	1
10	28760-007	2" (500.8 mm) pulley	1
11	07055-028	28" (711.2 mm) v-belt	1
12	28760-008	6" (152.4 mm) pulley	1
13A	28760-009	Jackshaft with pinion	1
14A	28760-010	Jackshaft housing	1
15	10057-005	3/16" (5 mm) square key	1
16	28760-011	Jackshaft plain bushing	1
17	28760-012	Ring gear & plate assembly	1
18	28760-013	Drum plate & shaft assembly	1
19	28760-014	Drum shaft bushing	2
20	23266-002	1" (25.4 mm) locking collar	1
21	28873-004	Wheelbarrow handle	2
22	21380-001	Handle grip	2
25W	28873-006	Poly ring gear guard	1
26W	28873-007	Guard for pulley	1
29	07745-001	Grease fitting	2
31	17985-010	3/8 x 1-1/4" (M10 x 30mm) carriage screw	12
33	28760-030	3/8" (M10) Hex flange lock nut	15
37	28760-026	5/16" (M8) Hex flange lock nut	4
39	07030-016	1" (25.4mm) Thrust washer	1
40	28873-009	Wheelbarrow axle	1
41	28873-010	Spacer tube for axle	1
42	28873-011	400 x 6 (10.2cm x 15.2cm) Wheel	2
43	28873-012	5/8" (15.875mm) set/locking collar	2
44	28873-013	hitch locking pin	2
46	28760-022	Jackshaft flange bushing	1
52	28873-014	3/4" (19.05mm) locking collar	1
53	28760-029	5/16" x 3/4" ( M8 x 19.05mm) hex screw	4
53A	17984-111	3/8" x 3/4" (M8 x 19.05mm) hex screw	3
*NS		WARNING LABEL	1
*NS		GREASE LABEL	1
*NS		SERIAL # LABEL	1
*NS		THE ENFORCER DRUM LABEL	1
*NS		CAUTION LABEL	1
*NS		HOW TO MIX CONCRETE LABEL	1
	*not shown		

# Model: The Enforcer





**A. LUBRICATION:** There are grease fittings (Item 29) on all models. Apply any type EP grease. Apply grease until grease begins to come out of the bushings.

**LUBRICATE ALL FITTINGS BEFORE USE .**

**B. EXTENSION CORD:** Use only outdoor approved grounded extension cords. The cords must be 14 gauge or larger

**C. GEAR ADJUSTMENT:** If the Gear on the Jackshaft (Item 13A) is not meshing properly with the Ring Gear and Plate (17), adjustment can be made by loosening the Hex Flange Screws attaching the Jackshaft Housing (14A) and sliding the housing tube until proper mesh is obtained. If removal of Pulley Guard was necessary, make certain it is reattached to the machine.

**D. MOTOR ADJUSTMENT/BELT TENSIONING:**

1. To adjust belt tension. Loosen the four screws that attach the motor to the frame. Make adjustments and retighten screws.
2. V-BELT TENSIONING: Retighten V-belts after the first 20 hours of use. The belt should be tightened until the belt deflects approximately 1/4" with regular thumb pressure.
3. Replace covers and guards before using the machine.

**E. CONCRETE MIXING**

**! CAUTION: DO NOT** insert sharp objects into the plastic mixing drum. Doing so will damage the drum.

**! WARNING: KEEP HANDS AWAY FROM MOVING PARTS.**

**Loading: NOTE:** Always start the mixer before loading.



**F. CLEANING**

**! WARNING: DO NOT** spray water on or into the motor.

THOROUGH CLEANING OF THE MIXER AFTER EACH USE IS RECOMMENDED AND WILL ADD TO THE SERVICE LIFE OF THE MACHINE.

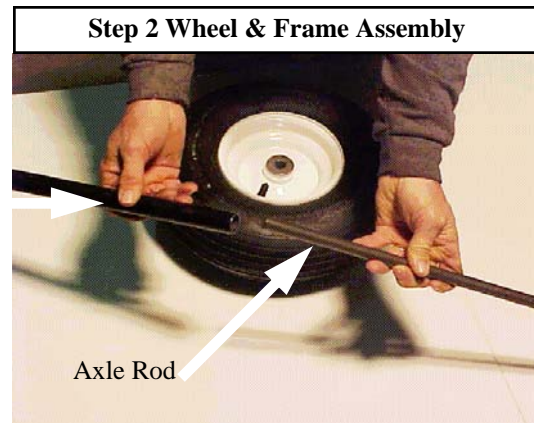
**G. GENERAL:** Check all screws for tightness before each use, especially those securing guards and drive mechanisms.



PARTS LIST		TOOLS NEEDED
		
2 ea Handle bars #21 1 ea Wheelbarrow Axle #40 1 ea Axle Spacer #41 1 ea Electric motor #5 1 ea Pulley Guard #26W 1 ea Drum plate & Shaft #18 1 ea Ring Gear #17 2 ea Wheels & Tires #42 1 ea Ring Gear Guard #25W 1 ea Drum #4	2 ea Handle grips #22 8 ea M8x19.05mm Screws #53 8 ea M8 nuts #37 2 ea Locking Pins #44 2 ea Locking Collar #20 2 ea 2"(500.8mm) pulley #10 1 ea V-belt #11 1 ea Thrust Washer #39 12 ea M10x30mm Carriage Screws #31 12 ea M10 Nuts #33	<p><b>! Warning:</b> whenever assembling, lubricating, or adjusting any part of the mixer, disconnect the power.</p> <p><b>Tools Required:</b>            8" Adjustable Wrench            1/2" &amp; 9/16" Box Wrench            Pliers            5/64" Allen wrench            Grease Gun  <i>Optional 1/2" &amp; 9/16" Socket &amp; ratchet</i></p>



Wheel & Frame Assembly



Slide Spacer on axle rod.



Put wheels on each axle rod end with hub out and stem inside



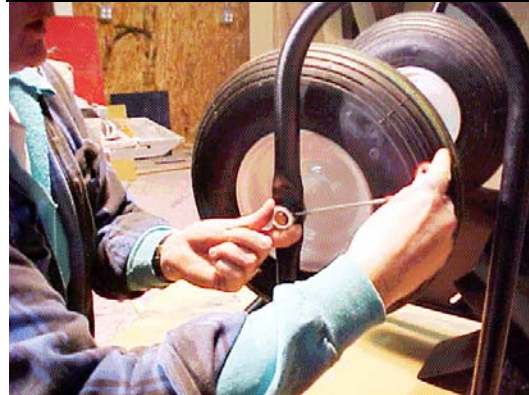
Push axle shaft so that axle extends out of frame hole.

### Step 5 Wheel & Frame Assembly



Place other end of axle assembly into frame.

### Step 6 Wheel & Frame Assembly



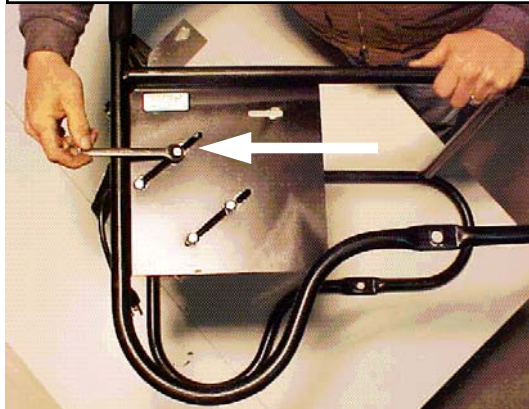
Place lock collars on axle shaft and tighten with Allen Wrench.

### Step 1 Electric Motor Assembly



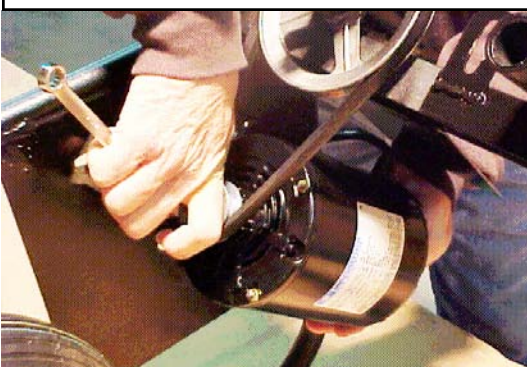
**Electric Motor Assembly:** Slide pulley onto motor shaft and tighten with Allen Wrench.

### Step 2 Electric Motor Assembly



Attach electric motor to mounting plate with hex screws (53) and hex flange locknuts. Tighten screw shown snug so motor will pivot. Leave other 3 screws loose to allow motor to pivot for tension adjustment.

### Step 3 Electric Motor Assembly



After installing belt onto 2" pulley on motor and 6" pulley on frame, tighten belt by sliding motor assembly down away from 6" pulley. Tighten hex screws with 12mm wrench.

### Step 4 Electric Motor Assembly



Tighten upper and lower screws on motor mounting plate.

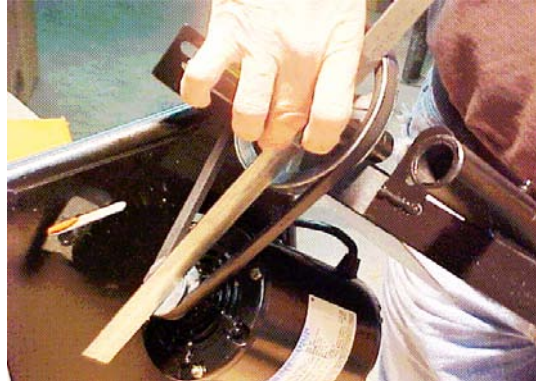


### Step 5 Electric Motor Assembly



To adjust alignment of belt, loosen the 2" pulley on the motor.

### Step 6 Electric Motor Assembly



Use a straight edge to help attain proper alignment. Once alignment has been achieved, tighten set screws on the 2" pulley. Do not adjust 6" pulley, pre-adjusted at factory.

### Step 1 Pulley & Ring Gear Guard Assembly



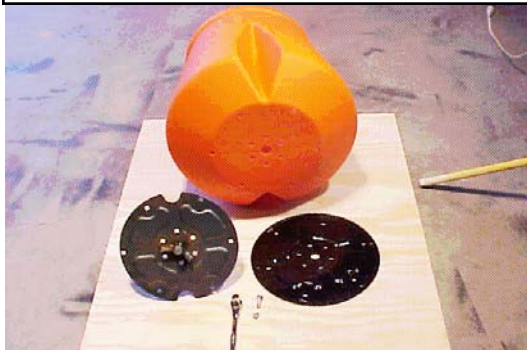
Install pulley guard (26W) using (1) 5/16" hex screws and nuts. Tighten guard securely.

### Step 2 Pulley & Ring Gear Guard Assembly



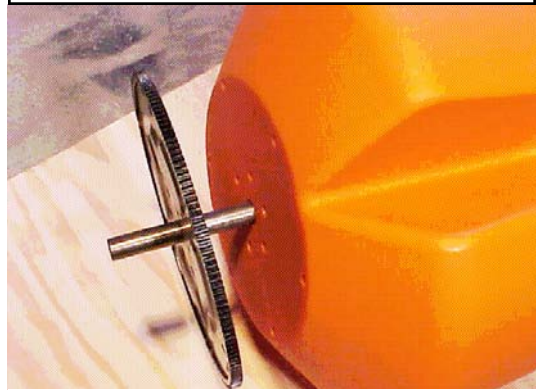
Install poly ring gear guard (25W). Put center screw all the way through pulley guard, frame tab and ring gear guard. Do not tighten screws securely at this time.

### Step 1 Drum & Ring Gear Assembly



Drum plate and shaft assembly  
(Best performed with 2 people)

### Step 2 Drum & Ring Gear Assembly



Slide drum plate and shaft onto drum shaft. Rotate until shaft slides into bottom of drum smoothly. Non-painted side facing drum.

### Step 3 Drum & Ring Gear Assembly



With ring gear painted side out, slide drum shaft against drum and secure with 12 carriage screws (31) and nuts. Secure with 14mm wrench.

### Step 4 Drum & Ring Gear Assembly



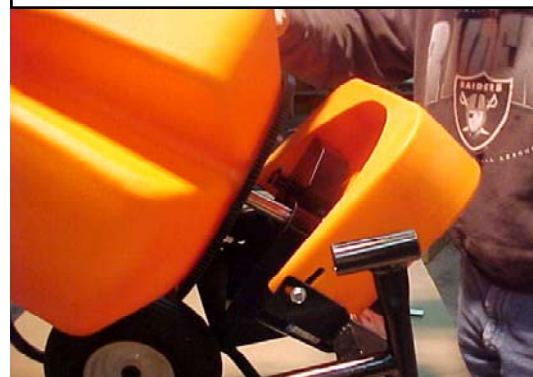
Tighten ring gear screws evenly. Torque to 20 foot pounds, or so 1/4" of thread is extending through the nut.

### Step 1 Drum Installation



Put 1/8" thick thrust washer (39) on main shaft.

### Step 2 Drum Installation



Place drum into drum shaft hole until ring gear engages with pinion gear.

### Step 3 Drum Installation



Adjust poly ring gear guard within 1/4" of drum and tighten screws until secure.



Jackshaft Pinion Housing

Pre drilled hole

Motor guard plate

Locate 2—pre-drill holes on mixer frame. Use 2 - round head screws 6 x 1 x 16 mm Place motor guard plate as show. Insert screw through guard plate and frame. Place lock washer on screw then place nut onto screw, tighten nut securely.



### Step 1 Final Assembly



Install locking collar (20) to drum shaft.

### Step 2 Final Assembly



Attach handlebars. Slide from front to back. Install grips on end of handlebars.

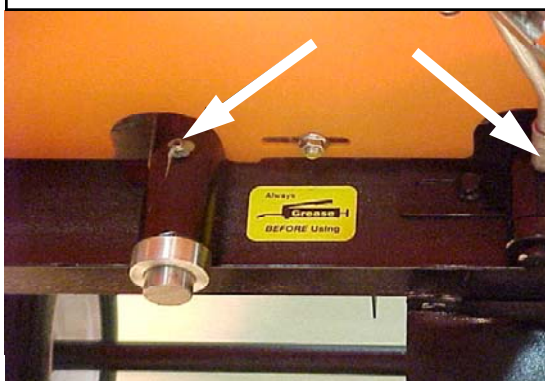
### Step 3 Final Assembly



Attach lock pins to each side.

1. Turn on Motor
2. While motor is running, add grease to both grease fittings until grease begins to come out of the bushings.

### Step 4 Final Assembly



Grease 2 fittings. **(Very Important)**

**Extension Cord:** Use only outdoor approved grounded extension cords. The cords must be 14 gauge or larger.

**NOTE: Quantities are for The Enforcer mixer**

## How to Mix Concrete

1. You will need approx. 2 1/2 gallons of water.
  2. 2-80 lb bags of pre-mix concrete
  3. Start Mixer in motion
  4. Put in 2-gallons of water.
  5. Add 1-80 lb bag of pre-mix concrete
- NOTE: Mixture will be very sloppy**
6. Slowly add 2nd bag of concrete.
  7. Add 1/2 gallon of water slowly to obtain desired thickness.

**\*GREASE TWO (2) FITTINGS  
BEFORE EVERY USE.**

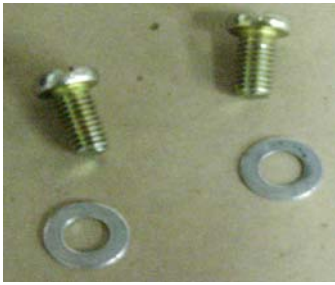
## How to Mix Sand & Gravel

1. Use an 8 1/2 X 12" square point shovel
2. Portland cement, gravel or round stone and masonry sand.
3. Start mixer in motion
4. Put in 2 gallons of water.
5. Add 6 shovels full of gravel or round stone
6. Add 2 shovels full of Portland Cement
7. Slowly add 4 shovels full masonry sand.

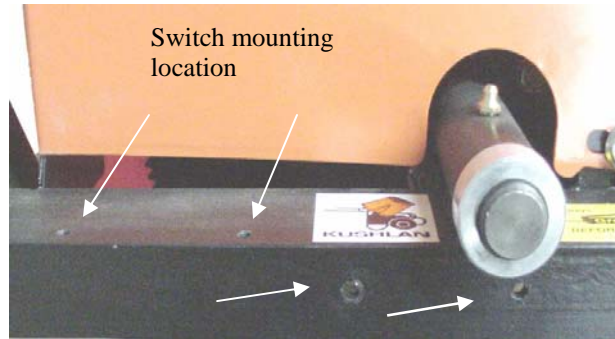
**NOTE: Water will vary according to moisture content of sand & gravel.**

**\*GREASE TWO (2) FITTINGS  
BEFORE EVERY USE.**

# SWITCH MOUNTING INSTRUCTIONS



Switch mounting hardware  
2 – Screws ( 6 x 1 x 12 mm )  
2 - Washers ( 6 mm )



Cord retaining clip  
mounting location.



## Motor and switch assembly.

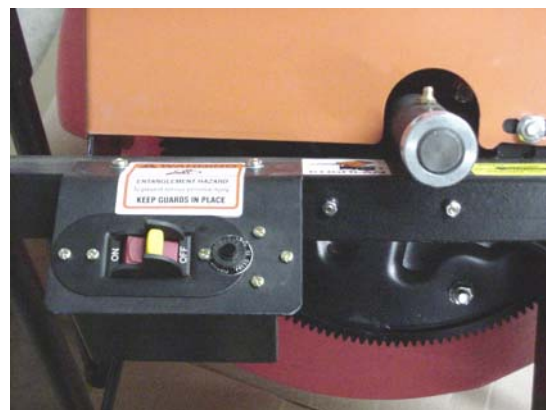
No electrical part assembly required .  
The on/off switch, and cord retaining clips  
are preassembled.

Each cord retaining clip includes a black  
lock washer and nut. Remove nut and  
washer from screw, push screw through  
pre drilled holes, place lock washer on  
screw then place nut on screw.

DO NOT leave any slack in motor cord  
above the motor area. After this cord is  
correctly aligned then tighten the nuts  
on retaining clips.



Use two 6 x 1 x 12 mm screws and  
washer to attach the switch to the  
mixer frame.



Completely assembled switch and cord  
retaining clips.

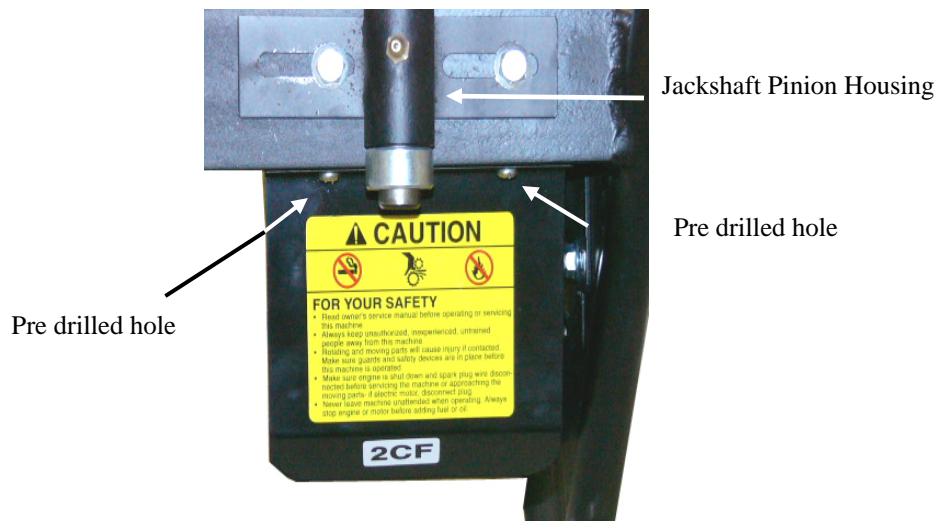


# "The Enforcer"

## Motor guard mounting instruction

### Parts

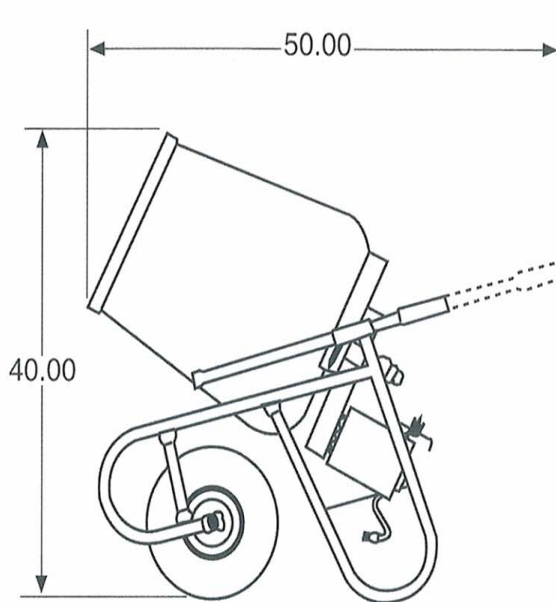
- 2 - 6 x 1 x 16 mm screws
- 2 - lock washers
- 2 - nuts



Locate pre-drill holes on mixer frame.

Place motor guard plate as show. Insert screw through guard plate and frame. Place lock washer onto end of screw then place nut onto end of screw, tighten nut securely.

# "The Enforcer"



Model: 2CF

## **General Specifications**

Capacity.....up to 225 lbs.  
Motor (H.P.).....1/2  
Motor (RPM).....1690  
Voltage.....110  
Frequency (HZ).....60  
Phase.....Single  
Drum (RPM).....40  
V-Belt (4L Section)  
Length.....28"  
Weight (lbs).....108

**Be sure to add water first !**

## **HOW TO MIX CONCRETE**

Average Load = 200 lbs.

Start with water

1 shovel cement

2 shovels sand

3 shovels gravel or small stone

## **CONVERSION CHARTS**

- 3 cu. ft. = 9 sq. ft. 4" thick
- 3 cu. ft. = 12 sq. ft. 3" thick
- 1 yard = 27 cu. ft.
- 1 yard = 80 sq. ft. 4" thick
- 1 yard = 108 sq. ft. 3" thick



## Kushlan Products, Inc. Limited Warranty Policy



Kushlan Products, Inc. makes every effort to assure that its products meet high quality and durability standards and warrants to the original retail consumer purchaser of our products (you) that each such product be free from defects in materials and workmanship as follows:

ONE (1) YEAR limited warranty on all Kushlan products.

This warranty does not apply to defects due, directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities or the lack of maintenance. WE LIMIT ALL IMPLIED WARRANTIES TO THE PERIOD SPECIFIED ABOVE FROM THE DATE OUR PRODUCT WAS PURCHASED AT RETAIL. EXCEPT AS STATED HEREIN, ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS ARE EXCLUDED. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG THE IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. WE SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE USE OF OUR PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

To take advantage of this warranty, the product or part must be returned for examination, postage prepaid, to Kushlan Products, Inc. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection discloses a defect, we will either repair or replace the product, at our election, or we may elect to refund the purchase price if we cannot readily and quickly provide you with repair or replacement, if you are willing to accept such refund. We will return the repaired product or replacement at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of storing and returning this product. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. For service, contact Kushlan Products, Inc.

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